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APPLICATION NO. FILING DATE		LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/631,355	(08/02/2000	Tetsuya Nishi	1046.1028D2/DSG	9683
21171	7590	03/11/2003			
STAAS & I	HALSEY	LLP	EXAMINER		
700 11TH ST SUITE 500	ŕ		SHAFER, RICKY D		
WASHINGTON, DC 20001		20001		ART UNIT	PAPER NUMBER
			2872		
			DATE MAILED: 03/11/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No. 09/631,355 Examiner C.D. SMA7	Applicant(s)	I ET AL					
Office Action Summary	Examiner		Group Art Unit					
4	R.D. SHM	LER	7872					
-The MAILING DATE of this communication appears on the cover sheet beneath the correspondence address—								
P riod for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>ろいいけん</u> MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.								
 Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. If NO period for reply is specified above, such period shall, by default, expire SIX (6) MONTHS from the mailing date of this communication. Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). 								
Status	i 1							
☐ Responsive to communication(s) filed on 12/16/02								
☐ This action is FINAL.								
□ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 1 1; 453 O.G. 213.								
Disposition of Claims								
∑(Claim(s) 23 - 38		is/are pe	ending in the appl	ication.				
Of the above claim(s) 23 − 3 i		is/are wi	thdrawn from cor	sideration.				
⊠ Claim(s) 23 - 31	is/are all	_ is/are allowed.						
Ø Claim(s) 32 − 38	is/are re	is/are rejected.						
☐ Claim(s)		is/are ob	jected to.					
□ Claim(s)				or election				
Application Papers		requirem						
☐ The proposed drawing correction, filed on is ☐ approved ☐ disapproved.								
☐ The drawing(s) filed on is/are objected to by the Examiner								
☐ The specification is objected to by the Examiner.								
☐ The oath or declaration is objected to by the Examiner.								
Pri rity under 35 U.S.C. § 119 (a)–(d)								
Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119 (a)–(d).								
⊠ All □ Some* □ None of the:								
☐ Certified copies of the priority documents have been received.								
★ Certified copies of the priority documents have been received in Application No. 08 200/657.								
☐ Copies of the certified copies of the priority documents have been received								
in this national stage application from the International Bureau (PCT Rule 17.2(a))								
*Certified copies not received:				·				
Attachment(s)								
☐ Information Disclosure Stat ment(s), PTO-1449, Paper No(s	s) 🗆 In	t rvi w Summ	ary, PTO-413					
☐ Notice of Reference(s) Cited, PTO-892	□ N €	otice of Inform	al Patent Applica	tion, PTO-152				
☐ Notice of Draftsperson's Patent Drawing Review, PTO-948	_ O	th r		 				
Office Action Summary								

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- 1. A request for continued examination (RCE) under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 11/15/02 has been entered.
- 2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 32-38 are rejected under 35 U.S.C. 102(b) as being anticipated by Healey et al ('140).

Healey et al discloses an optical space switch (2) comprising a plurality of polarization control optical switches (S1, S2, S3), each having a plurality of inputs (20) and a plurality of outputs (0) connected together as a eight way N X N space switch, wherein each of the polarization control switches comprising a polarization controller (C1, C2, C3) and a plurality

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switching elements/means [(R1, R2, R3) and (D1, D2, D3) or (B1, B2, B3)] for selectively outputting the polarization changed light to a respective output of the respective polarization control optical switch, note figures 1-5 and the associated description thereof, wherein switching light from a respective polarization control optical switch in a first column of the matrix to a respective output of a respective polarization control optical switch in the last column of the matrix requires controlling only one of the plurality of switching elements/means (R1, R2, R3) in the matrix. (i.e the eight way N X N space switch has 8 to the eighth possible settings, which would include activating only one of the 8 to the eighth settings to obtain an output.)

Claims 32-38 are rejected under 35 U.S.C. 102(b) as being anticipated by Yamamoto et al 4. ('944).

Yamamoto et al discloses an optical space switch comprising a plurality of polarization control optical switches (A, B, C), each having a plurality of inputs (I) and a plurality of outputs (0) connected together as a N X N matrix, wherein N=1, wherein each of the polarization control switches comprising a polarization controller (not shown) and a plurality of switching elements/means [(2A) and (3, 6, 7, 21A, 21B, 21C, 22)] for selectively outputting the polarization changed light to a respective output of the respective polarization control optical switch, note figures 4A to 6B, 9A to 11B and 17A to 17B and the associated description thereof, wherein switching light from a respective polarization control optical switch in a first column of the matrix to a respective output of a respective polarization control optical switch in the last column of the matrix requires controlling only one of the switching elements/means (2A) in the matrix. (i.e. see

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Fig. 17B, wherein the dashed line (---) represents a reflected (off) state of a switch and the solid line represents a transmitted (on) state of a switch. Thus, input node 1 to output node 7 includes the switch (2A) of C to be off, the switch (2A) of B to be off and the switch (2A) of C to be on to obtain an output.)

Claims 32-38 are rejected under 35 U.S.C. 102(e) as being anticipated by Dejule et al 5. (445).

Dejule et al discloses an optical space switch comprising a plurality of polarization control optical switches (S1.1, S1.2, S2.1 and S2.2), each having a plurality of inputs (K1-K12) and a plurality of outputs (L1-L8) connected together as a N X N matrix, wherein optical switches (S1, 2 and S2,2) serve as the last column, wherein each of the polarization control switches comprising a polarization controller (not shown) and a switching elements/means [(F1,1, F1,2, F2,1 and F2,2)] and (B1,1, B1,2, B2,1 and B2,2)] for selectively outputting the polarization changed light to a respective output of the respective polarization control optical switch, note figures 1-3 and the associated description thereof, wherein switching light from a respective polarization control optical switch in a first column of the matrix to a respective output of a respective polarization control optical switch in the last column of the matrix requires controlling only one of the switching elements/means (F1, 1, F1,2, F2,1 and F2,2) in the matrix. (i.e. see Fig. 2, wherein no voltage (off state) rotates the polarization of the switch and having voltage (on state) maintains the polarization of the switch. Thus, to include a selected polarization output at D2,2, the switch (F1,1) of S1,1 is on, the switch (F1,2) of S1,2 is off).

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- 6. Claims 23-31 are allowed.
- 7. Any inquiry concerning this communication should be directed to R. D. Shafer at telephone number (703) 308-4813.

RDS

March 3, 2003

Mary D. SHAFFR